



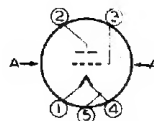
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**DETECTOR, AMPLIFIER, OSCILLATOR**

ACORN TYPE

Filament	Coated	
Voltage	1.25	d-c volts
Current	0.05	amp.
Direct Interelectrode Capacitances: <sup>o</sup>		
Grid to Plate	1.2	$\mu\text{mf}$
Grid to Filament	0.3	$\mu\text{mf}$
Plate to Filament	0.7	$\mu\text{mf}$
Overall Length		$1-7/32" \pm 5/32"$
Overall Diameter		$1-3/32" \pm 1/16"$
Bulb	See Outline in GENERAL SECTION	T-4 $\frac{1}{2}$
Base		Small Radial 5-Pin
Pin 1-Filament		Pin 5-Filament -
Pin 2-Plate		AA'-Plane of
Pin 3-Grid		Electrodes
Pin 4-Filament -		
RCA Socket		Stock No. 9925
Mounting Position		Vertical <sup>o</sup>

See Outline in  
GENERAL SECTIONShort Part of Bulb: Bottom  
BOTTOM VIEW (5BD)

Maximum Ratings Are Design-Center Values

AMPLIFIER

D-C Plate Voltage	135 max.	volts
<i>Characteristics—Class A<sub>1</sub> Amplifier:</i>		
D-C Plate Voltage	135	volts
D-C Grid Voltage*	-5	volts
Amplification Factor	13.5	
Plate Resistance	20800 approx.	ohms
Transconductance	650	$\mu\text{mhos}$
D-C Plate Current	2	ma.

<sup>o</sup> With no external shield.<sup>o</sup> Horizontal operation permitted if plane of electrodes is vertical (plate on edge).

\* Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.1 megohm with fixed bias, or 0.5 megohm with cathode bias.

*R-F grounding* by means of condensers placed close to the tube pins is required if the full capabilities of the 957 for ultra-high-frequency uses are to be obtained.

← Indicates a change.

JUNE 30, 1944

RCA VICTOR DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

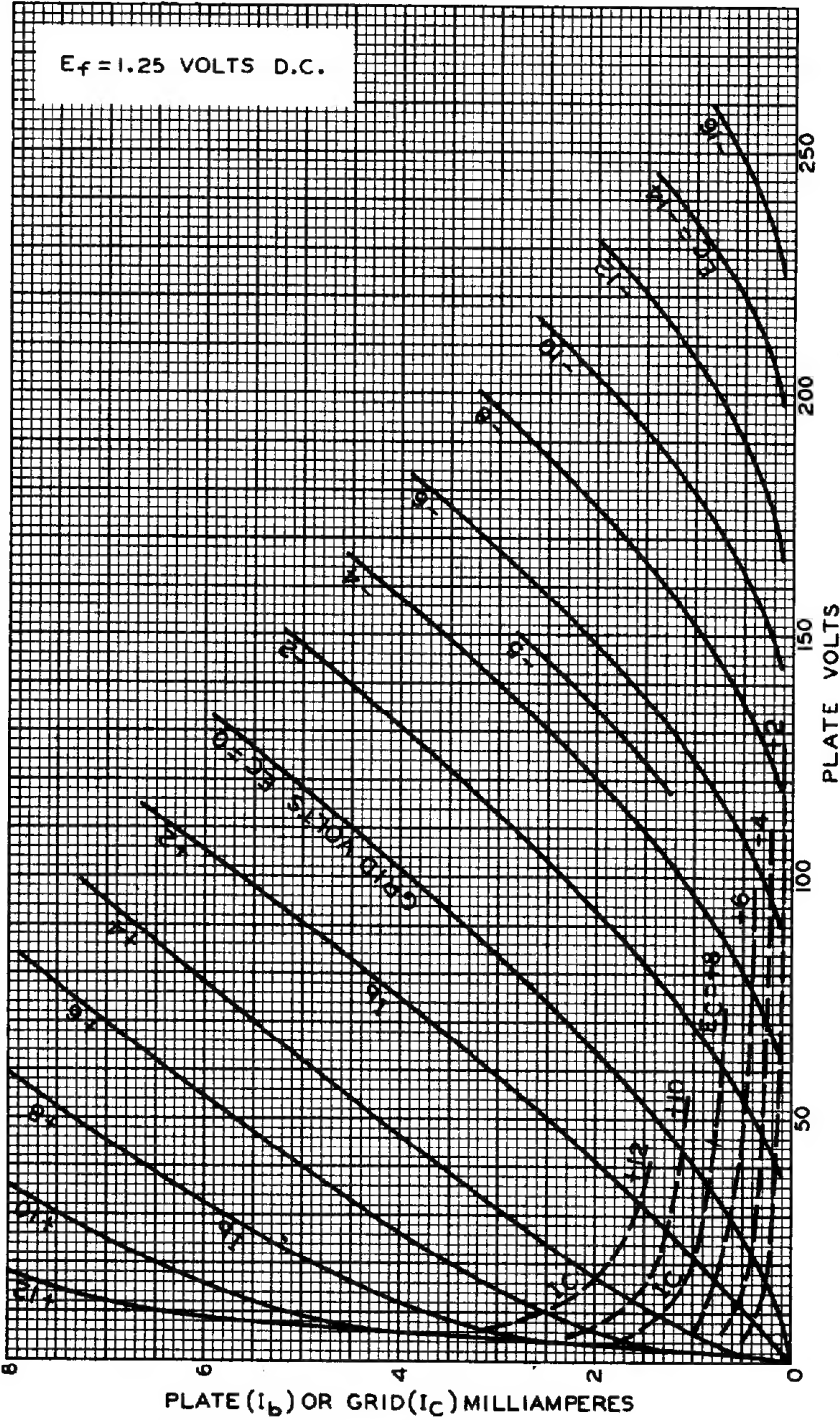
DATA

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# AVERAGE PLATE CHARACTERISTICS



JUNE 15, 1944

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